

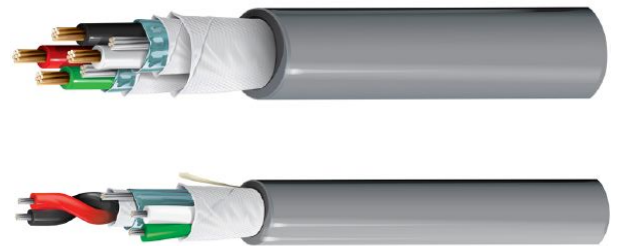


Product Lens

a materials health assessment

COMPANY AND PRODUCT INFO

Issued to	Belden
Description	Security / Alarm Cable, Non-Plenum, Water-Blocked, Stranded Copper Conductors, 22 AWG 1 to 2 Pairs + 2 to 4 Conductors, Individually Shielded
For the Products	5502G1xxx, 5541P1xxx, 5504G1xxx
Certification Period	April 2017-April 2019
Assessor	MBDC basis methodology v3.1*



Qualifications

- LEED BPDO Credit: Material Ingredients Option 1 Qualifies for as 1 product
- LEED BPDO Credit: Material Ingredients Option 2 Qualifies for 100% of cost

Other Achievements



MATERIALS / INGREDIENTS INFORMATION

Disclosure Level: 100 ppm 1000 ppm

The following table represents the top 90% of the material ingredient disclosure and ratings. For the full ingredient disclosure information, please see the table on the reverse side.

Materials	Result			
	Supply Chain/ MFG	Install	Use	End of Use
Tinned Copper	Yellow	Green	Green	Yellow
Copper	Green	Green	Green	Green
PVC	I,D	Yellow	Yellow	I,D
Plasticizer	Black	Black	Black	Black
Calcium Carbonate	Green	Green	Green	Green
Proprietary	Green	Green	Green	Green
Proprietary	Green	Green	Green	Green
PET	Green	Green	Green	Green
Aluminum	Yellow	Green	Green	Yellow

Exposure Indicator

D = Dermal, Skin
I = Inhalation, air
O = Oral, mouth

*No Indicator means no potential exposure scenario identified

Color Ratings

Green	Low or mild hazard identified and/or potential exposure
Yellow	Moderate hazard identified and/or potential exposure
Red	Problematic concern found. The combination of the hazard and potential exposure leads to some caution for some uses and/or applications.
Grey	Cannot be fully assessed due to either lack of complete formulation, or lack of toxicological information for one or more ingredients.
Black	Highly problematic material containing one or more chemicals classified as CMR and having a plausible route of exposure.

Go to ul.com/spg to view the full, detailed materials ingredient list

www.belden.com

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1-800-BELDEN1



*Methodology based on Cradle to Cradle Certified™ Product Material Health Assessment Methodology v3.1



CERTIFIED

PRODUCT LENS MATERIALS
TRANSPARENCY AND
DISCLOSURE.
VIEW SPECIFIC INGREDIENTS
AND EVALUATIONS:
UL.COM/PL

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Material	CAS Number	Role	%	MFG	Install	Use	End of Use	Comment
Tinned Copper		Conductor	5-41					Highly toxic to aquatic organisms; however, this material is acceptable for use in all phases due to limited exposure opportunity to biosphere.
Copper	7440-50-8	Conductor	0-31					Highly toxic to aquatic organisms; however, this material is acceptable for use in all phases due to limited exposure opportunity to biosphere.
PVC	9002-86-2	Jacket/Insulation	24-30	I,D			I,D	Lifecycle concerns around use of halogenated polymers.
Plasticizer	Proprietary	Jacket	6-7					CMR - Reproductive toxin (CA Prop 65)
Calcium Carbonate	1317-65-3	Various components	4.5-6.0					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	4.0-4.5					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	2.8-3.5					Little to no risk across all product phases
PET	25038-59-9	Tape/ Ripcord	0.6-2.2					Little to no risk across all product phases
Aluminum	7429-90-5	Tape	0-1.6					Some neurotoxicity concerns, but little risk as used in this product.
Flame Retardant	Proprietary	Jacket/Insulation	1.1-1.5					Suspected human carcinogen (CA Prop 65, IARC Group 2B, MAK Group 2)
Proprietary	Proprietary	Jacket	1.0-1.2					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	1.0-1.2					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.1-0.6					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.1-0.6					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.02-0.6	D	D	D	D	Skin sensitization and aquatic toxicity concerns, however should be acceptable across all product stages.
Proprietary	Proprietary	Insulation	0.3-0.55					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.35-0.45					Little to no risk across all product phases
Resins	Proprietary	Tape	0.35-0.45					Little to no risk across all product phases
Proprietary	Proprietary	Tape	0.25-0.35					Little to no risk across all product phases
Proprietary	Proprietary	Tape	0.25-0.35					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.20-0.25					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	0.18-0.23					some chronic toxicity issues but low risk during use phase
Polymer	Proprietary	Tape	0.1-0.15					Acceptable for use in this application and at this concentration
Proprietary	Proprietary	Jacket	0.1-0.15					Little to no risk across all product phases
Proprietary	Proprietary	Various colorants	0.1-0.15					CMR -suspected endocrine disruptor and potential reproductive toxicant (CA Prop 65)
Proprietary	Proprietary	Colorant	<0.1					Little to no risk across all product phases
Titanium Dioxide	13463-67-7	Various components	<0.1					Little to no risk across all product phases
Red pigment	Proprietary	Colorant	<0.1					Little to no risk across all product phases
Red pigment	Proprietary	Colorant	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Tape Adhesive	<0.1	I,D				Contains monomer which is a strong sensitizer of the skin and airways and a CMR. However, the risk is acceptable in the other phases after the adhesive is fully cured.
Polymer	Proprietary	Tape	<0.1					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Jacket	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Insulation	<0.05	D				Confirmed skin sensitizer, but is acceptable for use at this concentration across all product phases
Proprietary	Proprietary	Tape Adhesive	<0.05	D				Strong eye irritant. Care should be used during manufacture but once adhesive is fully reacted should be low risk in remaining product phases
Proprietary	Proprietary	Tape Adhesive	<0.05					Little to no risk across all product phases
Proprietary	Proprietary	Tape	<0.05					Acceptable for use in this application and at this concentration
Proprietary	Proprietary	Colorant	<0.05					CMR -suspected endocrine disruptor and potential reproductive toxicant (CA Prop 65)

	Low or mild hazard identified and/or potential exposure
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	Cannot be fully assessed due to either lack of complete formulation, or lack of toxicological information for one or more ingredients.
	Highly problematic material containing one or more chemicals classified as CMR and having a plausible route of exposure.

